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WGU C949 Objective Assessment V1 (New 2023/ 2024) Data Structures and Algorithms I | Questions and Verified Answers| 100% Correct| Grade A

Q:UESTION

Which sequence of letters represents preorder traversal of the nodes of this tree?

Answer:
A B C D F E G I H

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Q:UESTION

An array soc of size 1009 is used where the index is an integer in [0,1008] and the hash-function key%1009.

Where will the data associated with the key given by the last 4 social security digits '2023' be stored?

Answer:
In soc[5]

Q:UESTION

A stack s, a queue q, and a max value priority queue p each have a single 3 in them. Next s.push(4), q.push(4), and p.push(4) are executed.

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What is the triple (s.pop(), q.pop(), p.pop())?

Answer:
(4,3,4)

Q:UESTION

This stack reads left to right with the top to the right:
'green'
'yellow'
'blue'
'red'

What could be the stack after a push operation?

Answer:
['red','blue','yellow', 'green', 'purple"]

Q:UESTION

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Items were added sequentially onto the stack starting with 'red':
'green'
'yellow'
'blue'
'red'

What is the stack after a pop operation?

Answer:
'yellow'
'blue'
'red'

Q:UESTION

Which command helps to speed up comparisons using dictionary keys during a dictionary (d) lookup in this pseudocode clip?

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```
h = hash(key)
for pair in d:
 if h == pair[0]:
 return pair[1]
```

Answer:
hash(object)

Q:UESTION

What does the method any(b) return in Python if b is a dictionary?

Answer:
Returns True if any key of the dictionary is true.

Q:UESTION

Which Java method is used to read bytes from a standard file?

Answer:
Java.io.FileInputStream

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Q:UESTION

Which command will retrieve an item from the top of the stack?

Answer:
Pop()

Q:UESTION

Which command will insert object x at position index in a list?

Answer:
Add(int index, Object x)

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